# ANNEX I

## MAPS OF THE COMPREHENSIVE, EXTENDED CORE AND CORE NETWORK

### Legend

- **Inland Waterways**
  - Network: Status
  - Core: Completed and/or to be upgraded
  - Core: New construction

- **Railways**
  - Network: Status
  - Core: Rail completed and/or to be upgraded by 2030
  - Core: Rail new construction for 2030
  - Extended core: Rail completed and/or to be upgraded by 2040
  - Extended core: Rail new construction for 2040
  - Comprehensive: Rail completed and/or to be upgraded by 2050
  - Comprehensive: Rail new construction for 2050
  - Compr./ Core: Projected

- **Roads**
  - Network: Status
  - Core: Road completed and/or to be upgraded by 2030
  - Core: Road new construction for 2030
  - Extended core: Road completed and/or to be upgraded by 2040
  - Extended core: Road new construction for 2040
  - Comprehensive: Road completed and/or to be upgraded by 2050
  - Comprehensive: Road new construction for 2050
  - Compr./ Core: Projected

- **Nodes**
  - Core: Ports**
  - Comprehensive: Ports**
  - Core: Airports**
  - Comprehensive: Airports**
  - Core: RRT (Rail road terminals) / terminals along IWW
  - Comprehensive: RRT (Rail road terminals) / terminals along IWW
  - Capitals
  - Urban nodes

---

* speed of the order of 200km/h, intended as indicative average value without legal effect

** including multimodal freight terminals
Core, Extended Core & Comprehensive Networks: Rail freight, core ports and rail-road terminals (RRT)
EU Member States

- Rail freight
- Core ports and rail-road terminals (RRT)

EU Member States

- Conventional
- Conventional / New Construction
- ≥ 200 km/h
- ≥ 200 km/h / New Construction
Core, Extended Core & Comprehensive Networks:
Rail passengers and core airports
EU Member States
Core, Extended Core & Comprehensive Networks

Roads, core ports, rail-road terminals (RRT) and airports

EU Member States
Comprehensive & Core Networks: Inland waterways and ports

Inland waterways and ports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

Ports

Urban Nodes

Core

Inland Waterways

Inland Waterways / New Construction

Comprehensive

Core

Urban Nodes

Capitals

Urban Nodes

TEntec
## Core, Extended Core & Comprehensive Networks: Rail freight, ports and rail-road terminals (RRT)

### Countries:
- BE, BG, CZ, DK, EE, EL, ES, FR, HU, IT, CY, LV, LT, LU, MT, NL, AT, PL, PT, RO, SI, SK, SE

### Key Infrastructure:
- Rail freight
- Ports
- Rail-road terminals (RRT)

### Map Features:
- Railways Core
- Railways Extended Core
- Railways Comprehensive
- Compr
- Core
- Urban Nodes

### Network Speeds:
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

### Projected:
- °° Projected

### Note:
- The map illustrates the network coverage and connectivity across the European Union, highlighting key nodes and infrastructure types.

---

### Table Example:

<table>
<thead>
<tr>
<th>Infrastructure Type</th>
<th>Country Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rail freight</td>
<td>BE, BG, CZ</td>
</tr>
<tr>
<td>Ports</td>
<td>DK, EE, ES</td>
</tr>
<tr>
<td>Rail-road terminals (RRT)</td>
<td>IT, CY, LV, LT, LU, MT, NL, AT, PL, PT, RO, SI, SK, SE</td>
</tr>
</tbody>
</table>
Core, Extended Core & Comprehensive Networks:
Rail Passengers, airports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

≥ 200 km/h
Conventional / New Constr.

Urban Nodes
Projected

Helsinki
Stockholm
Tallinn
Riga
Vilnius

Conventional
Conventional / New Constr.
≥ 200 km/h
≥ 200 km/h / New Constr.

Projected

Airports
Capitals
Urban Nodes

Finnish Transport Location Web Services (Finnish:
Viesttööryhmän Tieasiantuntijat (Finnish:
TENtec

Railways Core
Railways Extended Core
Railways Comprehensive
Compr
Core
Urban Nodes

railway lines and cities

network connections

transport nodes
Core, Extended Core & Comprehensive Networks: Rail freight, ports and rail-road terminals (RRT)

Projected RRT Core, Extended Core & Comprehensive Networks:
- Rail freight,
- ports and rail-road terminals

- Railways Core
- Railways Extended Core
- Railways Comprehensive
- Compr
- Core
- Urban Nodes

- Conventional
- Conventional / New Constr. 
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.
- Projected

- Ports
- RRT
- Capitals
- Urban Nodes
Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

Projected Urban Nodes

Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

Projected Urban Nodes
Core, Extended Core & Comprehensive Networks:
Rail freight, ports and rail-road terminals (RRT)

Projected RRT

Railways Core
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.
- Projected

Railways Extended Core
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.
- Projected

Railways Comprehensive
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.
- Projected

Compr
- Rail freight, ports and rail-road terminals (RRT)

Core
- Railways Core
- Railways Extended Core
- Railways Comprehensive

Urban Nodes
- Capitals
- Urban Nodes
Core, Extended Core & Comprehensive Networks:
Rail Passengers, airports

BE BG CZ DK DE EE EL ES FR HR IT CY LT LU HU MT NL AT PL PT RO SI SK FI SE

- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Railways Core
Railways Extended Core
Railways Comprehensive
Compr Core
Urban Nodes

- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.
- Projected

Airports
Capitals
Urban Nodes

Guadeloupe (FR)
Martinique (FR)
Guiana (FR)
St. Martin (FR)
Guyane (FR)
Comprehensive & Core Networks: Inland waterways and ports

BE BG CZ DK DE EE EL ES FR HR CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

Core Comprehensive Core Urban Nodes

Inland Waterways Inland Waterways / New Construction Core Ports Urban Nodes

- Capitals
- Urban Nodes
Core, Extended Core & Comprehensive Networks: Rail freight, ports and rail-road terminals (RRT)

- Railways Core
- Railways Extended Core
- Railways Comprehensive
- Core & Extended Core
- Urban Nodes

- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.
- Projected

- Rail freight, ports and rail-road terminals (RRT)

- Capitals
- RRT
- Urban Nodes
Comprehensive & Core Networks: Inland waterways and ports

BE BG CZ DK DE EE IE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

Core Comprehensive Core Urban Nodes

Inland Waterways Inland Waterways / New Construction

Capitals Urban Nodes

Ports

Core

Urban Nodes
Core, Extended Core & Comprehensive Networks: Rail freight, ports and rail-road terminals (RRT)

Projected RRT Railways, Core Railways, Comprehensive Compr Urban Nodes Railways, Extended Core, Core, Urban Nodes:

Rail freight, ports and rail-road terminals (RRT)

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE
Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

BE BG CZ DK DE EE IE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE
Comprehensive & Core Networks: 
Inland waterways and ports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

Core Comprehensive Core Urban Nodes

<table>
<thead>
<tr>
<th>Inland Waterways</th>
<th>Inland Waterways / New Construction</th>
<th>Capital</th>
<th>Urban Nodes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ports</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Core, Extended Core & Comprehensive Networks:

Rail freight, ports and rail-road terminals (RRT)
Core, Extended Core & Comprehensive Networks: Rail Passengers, airports

Projected Cities:

- Berlin
- Paris
- Madrid
- Rome
- London
- Moscow
- Tokyo
- Beijing
- Sydney
- Mexico City

Conventional / New Constr.:
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Airports:
- Brussels
- Frankfurt
- Paris
- London
- Beijing
- Tokyo

Capitals:
- Berlin
- Paris
- Madrid
- Rome
- London
- Moscow
- Tokyo
- Beijing
- Sydney
- Mexico City

Urban Nodes:
- Berlin
- Paris
- Madrid
- Rome
- London
- Moscow
- Tokyo
- Beijing
- Sydney
- Mexico City

Railways Core

- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Railways Extended Core

- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Railways Comprehensive

- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Compr Core

- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Urban Nodes

- Berlin
- Paris
- Madrid
- Rome
- London
- Moscow
- Tokyo
- Beijing
- Sydney
- Mexico City
Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE
Ports
Urban Nodes

Comprehensive & Core Networks: Inland waterways and ports

BE BG CZ DK EE IE ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

Inland waterways

Core Comprehensive Core Urban Nodes

Ports

Azores (PT) Canary Islands (ES)

Canary Islands (ES) Azores (PT)
Core, Extended Core & Comprehensive Networks: Rail freight, ports and rail-road terminals (RRT)

Projected RRT

Core, Extended Core & Comprehensive Networks:

Rail freight, ports and rail-road terminals (RRT)

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

Madeira (PT)

Canary Islands (ES)

Madeira (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)

Canary Islands (ES)

Azores (PT)
Core, Extended Core & Comprehensive Networks: Rail Passengers, airports

BE BG CZ DK DE EE EL ES FR HR HU LT LU MT NL AT PL PT RO SI SK SE

Madeira (PT) Azores (PT)

Canary Islands (ES)

Railways Core
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h / New Constr.

Railways Extended Core
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Railways Comprehensive
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.
- Projected

Compr Core
- Airports
- Capitals
- Urban Nodes

Urban Nodes

Railways Core
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h / New Constr.

Projected
Core, Extended Core & Comprehensive Networks:
Rail freight, ports and rail-road terminals (RRT)

Core, Extended Core & Comprehensive Networks:
Rail freight, ports and rail-road terminals (RRT)

Core, Extended Core & Comprehensive Networks:
Rail freight, ports and rail-road terminals (RRT)
Core, Extended Core & Comprehensive Networks:

**Rail Passengers, airports**

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

- Core, Extended Core & Comprehensive Networks:
  - Rail Passengers
  - Airports
  - Urban Nodes
Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

Core, Extended Core & Comprehensive Networks

Roads,
ports, rail-road terminals and airports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE
Inland waterways and ports

Core Comprehensive Core Urban Nodes

Inland Waterways Inland Waterways / New Construction

Ports

Capitals Urban Nodes
Core, Extended Core & Comprehensive Networks:
Rail freight, ports and rail-road terminals (RRT)

Projected RRT

Core, Extended Core & Comprehensive Networks:
Rail freight, ports and rail-road terminals (RRT)

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE
Core, Extended Core & Comprehensive Networks:

**Rail Passengers, airports**

Projected

Core, Extended Core & Comprehensive Networks:

- Rail Passengers
- Airports

BE  BG  CZ  DK  DE  EE  IE  ES  FR  IT  CY  LV  LU  HU  MT  NL  AT  PL  PT  RO  SI  SK  FI  SE

**Railways Core**
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

**Railways Extended Core**
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

**Railways Comprehensive**
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

**Projected**

**Compr Core Urban Nodes**

**Airports**

**Capitals**

**Urban Nodes**
Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE

Core, Extended Core & Comprehensive Networks

Roads, ports, rail-road terminals and airports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU HU MT NL AT PL PT RO SI SK FI SE
Core, Extended Core & Comprehensive Networks: Rail freight, ports and rail-road terminals (RRT)

Projected RRT

Railways Core
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.
- Projected

Railways Extended Core
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Railways Comprehensive
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.
- Projected

Compr
- Core
- Urban Nodes

Urban Nodes
- Ports
- Capitals
- RRT
- Urban Nodes
Core, Extended Core & Comprehensive Networks:

Rail Passengers, airports

BE BG CZ DK DE EE EL ES FR HR IT CY LV LT LU MT NL AT PL PT RO SI SK FI SE

Railways Core
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Projected

Railways Extended Core
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Projected

Railways Comprehensive
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Projected

Compr Core

Urban Nodes

Airports

Capitals

Urban Nodes

Legend:
- Conventional
- Conventional / New Constr.
- ≥ 200 km/h
- ≥ 200 km/h / New Constr.

Projected

Map showing rail networks and urban nodes.